18 1866 (FEET) 08 FEB 2006 TO-1390 (Rev. 07-2005)

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TRANSMITTAL LETTER TO THE UNITED STATES

ATTORNEY'S DOCKET NUMBER

MERCK-3144

DESIGNATED/ELECTED OFFICE (DO/EO/	US)							
CONCERNING A FILING UNDER 35 U.S.C								
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING D.	ATE PRIORITY DATE CLAIMED							
PCT/EP2004/008340 July 26, 2004	August 8, 2003							
TITLE OF INVENTION								
ALIGNMENT LAYER WITH REACTIVE MESOGENS FOR ALIGN	ING LIQUID CRYSTAL MOLECULES							
APPLICANT(S) FOR DO/EO/US								
Richard HARDING et al.								
Applicant herewith submits to the United States Designated/Elected Office (DC	O/EO/US) the following items and other information:							
1. This is a FIRST submission of items concerning a filing under 35 U.	S.C. 371.							
2. This is a SECOND or SUBSEQUENT submission of items concerning	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. The US has been elected (Article 31).								
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
a. is attached hereto (required only if not communicated by the	ne International Bureau).							
b. 🛛 has been communicated by the International Bureau.								
c. is not required, as the application was filed in the United St	ates Receiving Office (RO/US).							
6. An English language translation of the International Application as fi	led (35 U.S.C. 371(c)(2)).							
,								
a. is attached hereto.								
b. has been previously submitted under 35 U.S.C. 154(d)(4).	T Aminin 10 (25 H C C 271(n)(2))							
a. are attached hereto (required only if not communicated by the International Rureau	ne memanonai Bureau).							
b. have been communicated by the International Bureau. c. have not been made; however, the time limit for making su	ch amendments has NOT expired							
d. And have not been made; however, the time limit for making such as the sum of the sum	en amendments has 1401 expired.							
8. An English language translation of the amendments to the claims und	er PCT Article 19 (35 U.S.C. 371(c)(3))							
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
English language translation of the annexes of the International Preliminary Examination Report under PCT								
Article 36 (35 U.S.C. 371(c)(5)).								
Items 11 to 20 below concern document(s) or information induded	l:							
11. An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.								
12. An assignment document for recording. A separate cover sheet in co	An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.							
13. A preliminary amendment.	A preliminary amendment.							
14. An Application Data Sheet under 37 C.F.R. 1.76.	An Application Data Sheet under 37 C.F.R. 1.76.							
15. A substitute specification.	A substitute specification.							
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.							
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.								
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
19. A second copy of the English language translation of the international	l application under 35 U.S.C. 154(d)(4).							

This collection of information is required by 37 CFR 1.414 and 1.491.492. The information is required to obtain a benefit by the publicyhich is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313450.

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3	ICATIO	NNO.	if knows	n, see 37 GFR (1.5)	INTERNATIONAL APPL PCT/EP2004/008340	ICATION NO.	ATTORNEY'S DOC MERCK-3144	CKET NUMBER
20.	Other it	ems or i	nformati	on.	I C1/E1 2004/008340		WIERCK-5144	
20.	Omer n							
	The fol	lowing fo	ees have	been submitted	.		CALCULATIONS	PTO USE ONLY
	\boxtimes	•		fee (37 CFR 1.492	\$300			
22.	\boxtimes	Exam	ination fo	ee (37 CFR 1.492(c))		\$200	
If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0								
All other situations \$200								
			`	CFR 1.492(b))	. 1 1*		\$500	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or						·		
previously	y comm	unicated	to the U	S by the IB		\$400		
All other	situatio					\$500	01000.00	
				22 and 23 =			\$1000.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in in an electronic medium). (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					1			
Total She		Extra S			additional 50 or fraction the			
				(round up to a whole number)			\$	
- 100		/50	0 =			x \$250		7.1
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$			
CLAIM			NUN	MBER FILED	NUMBER EXTRA	RATE		
Total Clai		ıs		21- 20 =	1	x \$50	\$50.00	
Independent Claims			1-3=		X \$200	\$		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360						\$		
TOTAL OF ABOVE CALCULATIONS =					= \$			
	Applica	nt claim	s small e	ntity status. See 3	7 CFR 1.27. Fees above are	reduced by ½.		
						SUBTOTAL	= \$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$				
1					TOTA	L NATIONAL FEE	= \$1050.00	·
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			у \$					
TOTAL FEES ENCLOSED =					= \$1050.00			
							Amount to be refunded:	\$
							Amount to be charged:	\$

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		n appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed estore the International Application to pending status.
	SEND ALL COR	RESPONDENCE TO:
		Anthony J. Zelano
		NAME
		<u>27, 9696</u>
		REGISTRATION NUMBER
	Date: February	3, 2006